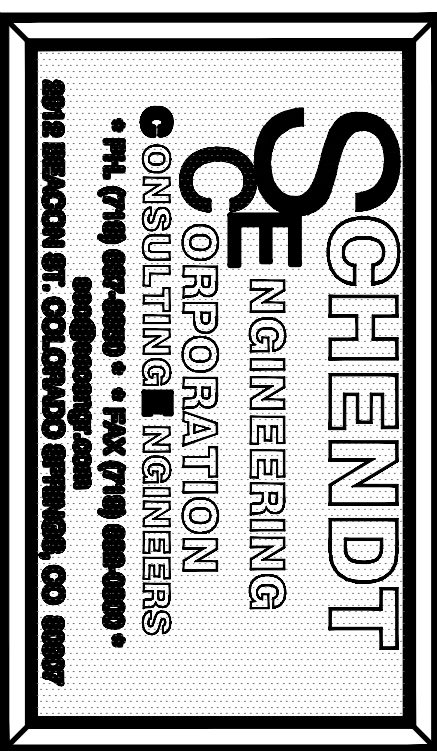
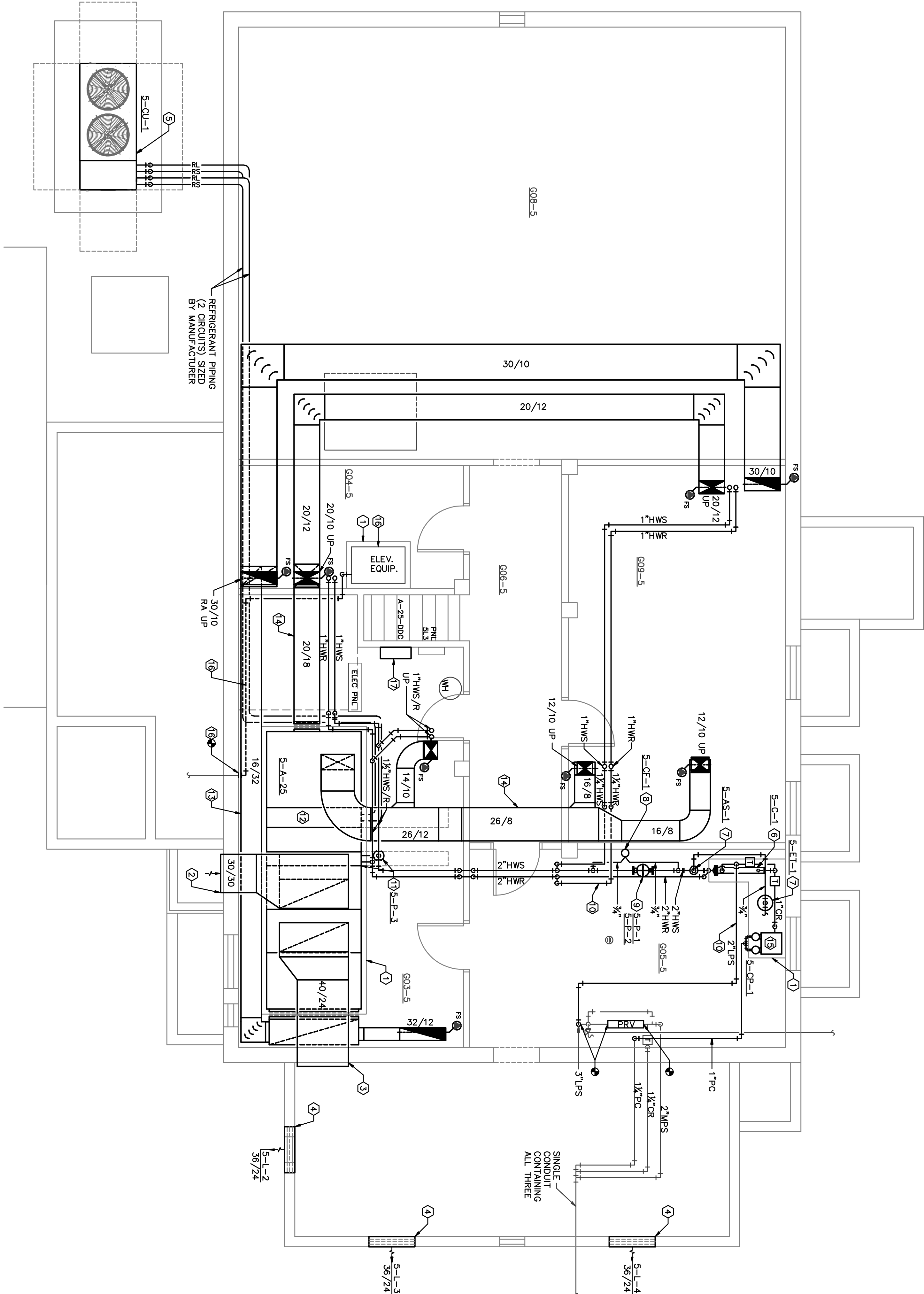
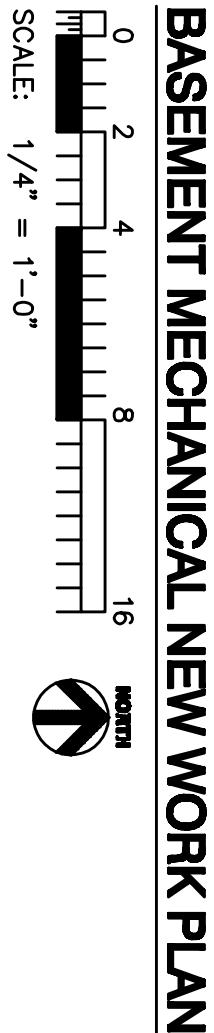
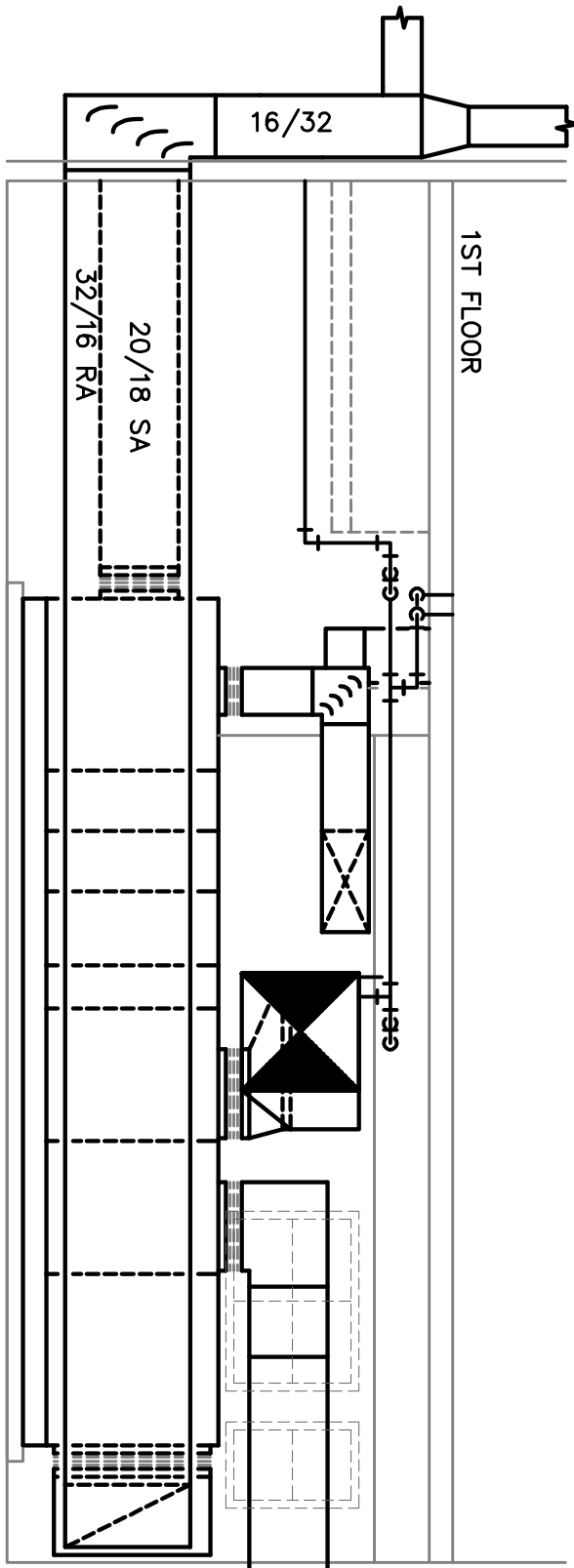
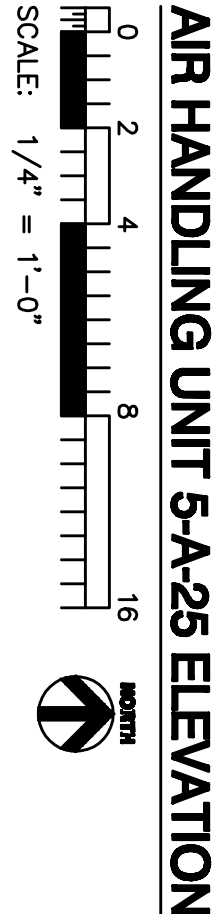




35% REVIEW	04/30/2009
75% REVIEW	05/21/2009
100% FINAL	06/05/2009
DATE	



Drawing Title	Project Title	Project Number	Office of Facilities Management
BASMENT MECHANICAL NEW WORK PLAN	REPLACE AIR HANDLING UNIT BUILDING 5	578-10-106	
Approved: Medical Center Director	Location	Building Number	
Approved: Assistant Administrator, Engineering Department	825 NORTH AVENUE GRAND JUNCTION, CO 81501	BUILDING NO. 5	
Date	Checked	Drawing Number	
April 15, 2009	TBS	H5	
	DWG		



GENERAL NOTES

- NOT ALL DUCTWORK, PIPING, AND ACCESSORIES ARE NECESSARILY SHOWN ON THIS DRAWING, BUT WHAT WAS DEEMED NECESSARY TO SHOW INTENT OF WORK. CONTRACTOR SHALL VERIFY ALL WORK SHOWN ON THIS DRAWING MEETS THE REQUIREMENTS OF THE INTERNATIONAL MECHANICAL CODE.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF ANY WORK, AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE ACTUAL FIELD CONDITIONS.
- GENERAL CONTRACTOR SHALL PENETRATIONS THROUGH FIRE/SMOKE RATED CONSTRUCTION SHALL BE PENETRATED WITH FIRE/SMOKE RATED TO OR EXCEEDING THE CONSTRUCTION FIRE RATING.
- ALL MATERIALS IN THE RETURN AIR PLenum SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 IN ACCORDANCE WITH SECTION 602.2.1 OF THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE.
- FLEXIBLE AIR DUCTS SHALL CONFORM TO UL181 IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.
- ALL MECHANICAL EQUIPMENT SHALL BE LABELED AS TO THE AREAS(S) SERVED BY THE EQUIPMENT. SEE SECTION 601.11 OF THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE.
- PROVIDE ACCESS DOORS OR OTHER MEANS OF APPROVED ACCESS TO ALL LABELED ON THE ACCESS DOOR AND ON THE CEILING BELOW.
- PROVIDE AND INSTALL BALANCING DAMPER AT EACH BRANCH TAKE-OFF OF SUPPLY AND EXHAUST AIR SYSTEMS. PROVIDE AND INSTALL BALANCING DAMPER AT EACH BRANCH TAKE-OFF OF RETURN SYSTEMS WHERE INDICATED.
- MOUNT SPACE TEMPERATURE SENSORS, THERMOSTATS, OCCUPANCY SENSORS, AND EXHAUST FLOW SENSORS WITH CENTERLINE AT 40 AFT UNLESS OTHERWISE INDICATED. DEVICES WITH CENTERLINE AT 40 AFT SHALL BE PROTECTED FROM POTENTIAL DAMAGE.
- COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE 120V OUTLET WITHIN 25 FT. OF ALL EXTERIOR MECHANICAL EQUIPMENT.
- ALL FRESH AIR INTAKES AND EXHAUST OPENINGS SHALL HAVE 1/4" MESH BIRD SCREENS.
- PROVIDE BALANCING REPORT IN ACCORDANCE WITH THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE. SUBMIT TO THE ARCHITECT FOR HEATING FINAL INSPECTION.
- DUCTWORK SHALL BE SIZED IN ACCORDANCE WITH THE SPECIFICATIONS AND THE 2006 EDITION OF THE INTERNATIONAL MECHANICAL CODE, SECTION 503.2.7.
- PROVIDE AND INSTALL MANUAL AIR VENTS AT ALL HIGH POINTS AND DRAIN VALVES AT ALL LOW POINTS IN HYDROIC PIPING.
- ALL HEATING WATER SUPPLY AND RETURN BRANCH PIPING TO TERMINAL UNITS SHALL BE 3/4" UNLESS NOTED OTHERWISE. ALL BRANCH TAKE-OFFS SHALL BE OFF THE BOTTOM OF THE MAIN.
- MANY AREAS OF CONSTRUCTION ARE VERY CONGESTED. INSTALLATION OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED WITH ALL TRADES TO ENSURE THERE IS SUFFICIENT ROOM FOR MATERIALS AND EQUIPMENT TO BE INSTALLED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING MATERIALS AND EQUIPMENT WHICH DOES NOT ALLOW FOR INSTALLATION OF REMAINING MATERIALS AND EQUIPMENT WILL BE REMOVED AND RELOCATED TO THE INSTALLATION OF LARGER COMPONENTS FIRST (i.e. VAN BOXES, DUCTWORK, CABLE TRAY, HYDROIC PIPING, SPRINKLER PIPING AND CONDUIT RESPECTIVELY).

KEYNOTES

- NEW CONCRETE HOUSEKEEPING PAD FOR AIR HANDLING UNIT, CONVERTER, ELEVATOR HYDRAULIC UNIT AND CONDENSATE PUMP. SEE CONCRETE HOUSEKEEPING PAD DETAIL ON SHEET H6.
- SAW CUT NEW 30X30" OPENING IN EXISTING CONCRETE WALL TO NEW FRESH AIR EXHAUST. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SHAFT CONSTRUCTION.
- SAW CUT NEW 48X24" OPENING IN EXISTING CONCRETE WALL FOR NEW RELIEF AIR. CORE DRILL CORNERS OF OPENING TO PREVENT OVER CUTTING.
- SAW CUT NEW 24X24" OPENING IN EXISTING CONCRETE WALL FOR NEW EXHAUST OPENING TO PREVENT OVER CUTTING.
- MOUNT NEW CONDENSING UNIT ON EXISTING CONCRETE HOUSEKEEPING PAD. SHEET H6.
- NEW CONVERTER. SEE STEAM TO HOT WATER CONVERTER PIPING DIAGRAM ON SHEET H6.
- NEW AIR SEPARATOR AND EXPANSION TANK. SEE "AIR CONTROL, AND EXPANSION TANK ASSEMBLY (AIR SEPARATOR)" ON SHEET H6.
- NEW CHEMICAL FEEDER. SEE "CHEMICAL FEEDER DETAIL" ON SHEET H6.
- NEW IN-LINE PUMP. SEE "IN-LINE PUMP PIPING DETAIL" ON SHEET H6.
- NEW HOT WATER AND STEAM PIPING. SEE "HEATING HOT WATER PIPING SUPPORT DETAIL" ON SHEET H6.
- NEW PUMPED HEATING COIL. SEE "PRE-HEAT COIL PIPING DETAIL" ON SHEET H6.
- NEW DIRECT EXPANSION COOLING COIL. SEE "DIRECT EXPANSION COOLING COIL PIPING DIAGRAM" ON SHEET H6.
- ROUTE RETURN AIR DUCT ABOVE FLOOR BESIDE AIR HANDLING UNIT.
- ROUTE NEW SUPPLY DUCT TO EXISTING SHAFTS.
- NEW CONDENSATE PUMP. SEE CONDENSATE PUMP PIPING DIAGRAM ON SHEET 8.
- RELOCATE EXISTING ELEVATOR HYDRAULIC UNIT TO LOCATION SHOWN. INSTALL NEW 2" HYDRAULIC LINES FROM HYDRAULIC UNIT TO EXISTING HYDRAULIC LINES EXISTING ON ELEVATOR AND HYDRAULIC UNIT.
- NEW DDC TEMPERATURE CONTROL PANEL WITH JOHNSON CONTROLS CONTROLLER.

CONTRACTOR IS RESPONSIBLE FOR VERIFYING THAT NEW AIR COMPONENTS WILL FIT THROUGH EXISTING STRUCTURAL OPENINGS. IF A FIT IS NOT OBTAINED, CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY HEAT TO OFFICE OPERATIONAL HEATING COILS COULD BE USED BY INSTALLING TEMPORARY SUPPLY FANS TO VERTICAL SHAFTS IN THE BASEMENT.